

Title (en)

Materials processing using chemically driven spherically symmetric implosions.

Title (de)

Materialbehandlungsverfahren mittels chemisch angetriebener sphärisch-symmetrischer Implosionen.

Title (fr)

Procédé de traitement de matériaux en utilisant des implosions de forme symétrique-sphérique générées par voie chimique.

Publication

**EP 0202357 A1 19861126 (EN)**

Application

**EP 85106443 A 19850524**

Priority

EP 85106443 A 19850524

Abstract (en)

A system and method for obtaining spherically symmetrical implosion of sample materials by directing radiant ignition energy (60) onto a target (10) which includes a spherically symmetrical core of selected sample material (12) concentrically surrounded by a shell of high explosive material (14). The resulting implosive compression produces hydrodynamically controlled physical and/or chemical and/or metallurgical transformations of state in the sample material (12).

IPC 1-7

**B01J 3/08**

IPC 8 full level

**B01J 3/08** (2006.01); **B01J 19/12** (2006.01); **B22F 3/08** (2006.01); **F42B 3/113** (2006.01); **H05H 1/22** (2006.01)

CPC (source: EP)

**B01J 3/08** (2013.01); **B01J 19/121** (2013.01); **B22F 3/08** (2013.01); **F42B 3/113** (2013.01); **G21B 1/19** (2013.01); **G21B 1/23** (2013.01); **Y02E 30/10** (2013.01)

Citation (search report)

- [YD] US 3659972 A 19720502 - GARRETT DONALD R
- [XD] US 3812783 A 19740528 - YANG L, et al
- [AD] US 4084887 A 19780418 - SIGLER ROBERT D
- [A] FR 2238990 A1 19750221 - WOJSKOWA AKAD TECH [PL]

Cited by

EP0332694A4; EP0691288A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

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